

What is claimed is:

1. A vacuum container having a getter with a getter material filled therein for maintaining a degree of vacuum, comprising:

5 a getter support including a control plate member, a support leg and a holder, and arranged at a spreading direction of the getter material when evaporated to thereby control the spreading direction of the getter material.

10 2. The vacuum container according to claim 1, wherein the control plate member has a hollow space, the holder holds the getter with its spreading side located at an opening of the hollow space of the control plate member and the control plate member is fixedly anchored by the support leg in the vacuum container.

15 20 3. The vacuum container according to claim 2, wherein in the case where the getter material discharged from the getter is reflected on the control plate member and then flied out from the control plate member, the control plate member is arranged for permitting the getter material to reflect at least two times on the control plate member.

4. The vacuum container according to claim 1,
wherein when the control plate member is a combination of
a conical shape and a cylindrical shape with the hollow
space so that a longitudinal cross section thereof
5 includes a vertex and a center of a base of the conical
shape, assuming that the bottom of the cylindrical shape
is a and the side of the cylindrical shape is b, the
angle at the vertex of the control plate member is equal
to or smaller than two times a reverse tangent $\tan^{-1}(b/a)$
of the angle defined by the two sides a and b, and the
spreading side of the getter is held by the holder to
stay within an isosceles triangle of which the base is
equivalent to the base of the cylindrical shape and the
angle at each end of the base is expressed by $\tan^{-1}(b/a)$.

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5. The vacuum container according to claim 2,
wherein the control plate member has an opening of the
hollow space arranged to have a polygonal or arcuate
shape in cross section.

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6. The vacuum container according to claim 2,
wherein the getter support is made of at least a metallic
material.

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7. The vacuum container according to claim 1,

having a plurality of getter supports provided therein.

8. The vacuum container according to claim 1,
wherein the support leg holds a plurality of control
5 plate members.

9. A display device having a getter with a getter
material filled therein for maintaining a degree of
vacuum, comprising:

a getter support including a control plate member,
a support leg and a holder, and arranged at a spreading
direction of the getter material when evaporated to
thereby control the spreading direction of the getter
material.

10. The display device according to claim 9,
further comprising:

an electron emitter substrate having at least a
pattern of wiring layer, electron emitter elements,
20 insulating layers, and lead electrodes all provided on a
first glass substrate;

a light emitter substrate having at least anodes
and fluorescent layers all provided on a second glass
substrate; and

25 a spacer provided between the electron emitter

substrate and the light emitter substrate so that the electron emitter substrate and the light emitter substrate are spaced by a predetermined distance from each other.

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11. The display device according to claim 9, wherein the control plate member has a hollow space, the holder holds the getter with its spreading side located at an opening of the hollow space of the control plate member and the control plate member is fixedly anchored by the support leg in the display device.

12. The display device according to claim 11, wherein in the case where the getter material discharged from the getter is reflected on the control plate member and then flied out from the control plate member, the control plate member is arranged for permitting the getter material to reflect at least two times on the control plate member.

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13. The display device according to claim 9, wherein when the control plate member is a combination of a conical shape and a cylindrical shape with the hollow space so that a longitudinal cross section thereof includes a vertex and a center of a base of the conical

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shape, assuming that the bottom of the cylindrical shape is a and the side of the cylindrical shape is b, the angle at the vertex of the control plate member is equal to or smaller than two times a reverse tangent $\tan^{-1}(b/a)$ of the angle defined by the two sides a and b, and the spreading side of the getter is held by the holder to stay within an isosceles triangle of which the base is equivalent to the base of the cylindrical shape and the angle at each end of the base is expressed by $\tan^{-1}(b/a)$.

APPENDIX TO THE DRAWINGS

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14. The display device according to claim 11, wherein the control plate member has an opening of the hollow space arranged to have a polygonal or arcuate shape in cross section.

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15. The display device according to claim 11, wherein the getter support is provided between the electron emitter substrate and the light emitter substrate and the opening of the control plate member is at least not smaller than the size of the getter.

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16. The display device according to claim 11, wherein the getter support is made of at least a metallic material.

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17. The display device according to claim 9,
having a plurality of getter supports provided therein.

18. The display device according to claim 9,
5 wherein the support leg holds a plurality of control
plate members.

19. The display device according to claim 9,
wherein the getter support is located on the outer side
10 of a display area of the display device.

20. The display device according to claim 9,
wherein the getter supports are provided opposite to each
other via a display area of the display device.

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21. The display device according to claim 10,
wherein the side of the getter where the getter material
is exposed faces the electron emitter elements and the
getter support is provided between the getter and the
20 electron emitter elements so that spreading particles of
the getter material are collided at least once with the
the control plate member or reflected at least once on
the control plate member.